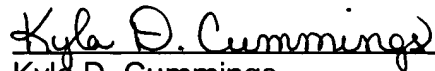


In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

Applicants believe that no fee is due with this submission. However, if the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/WEAT/0524/WBP.

Respectfully submitted,



Kyla D. Cummings

Registration No. 50,682

MOSER, PATTERSON & SHERIDAN, L.L.P.

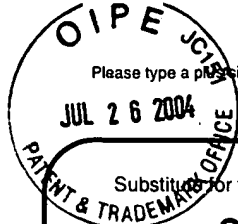
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Attorney for Applicant(s)



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PTO/SB/08a (08-03)

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|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | A1 | US-6742606 B2 | 06/01/2004 | Melcalfe, et al. | |
| | A2 | US-6702040 B1 | 03/09/2004 | Sensenig | |
| | A3 | US-6668937 | 12/30/2003 | Murray | |
| | A4 | US6634430 | 10/21/2003 | Dawson et al. | |
| | A5 | US-6547017 B1 | 04/15/2003 | Vail, III | |
| | A6 | US-6543552 B1 | 04/08/2003 | Melcalfe, et al. | |
| | A7 | US-6536993 B2 | 03/25/2003 | Strong, et al. | |
| | A8 | US-6457532 B1 | 10/01/2002 | Simpson | |
| | A9 | US-6263987 B1 | 07/24/2001 | Vail, III | |
| | A10 | US-6216533 B1 | 04/17/2001 | Woloson, et al. | |
| | A11 | US-6189616 B1 | 02/20/2001 | Gano, et al. | |
| | A12 | US-6186233 B1 | 02/13/2001 | Brunet | |
| | A13 | US-6155360 | 12/05/2000 | McLeod | |
| | A14 | US-6135208 | 10/24/2000 | Gano, et al. | |
| | A15 | US-6098717 | 08/08/2000 | Bailey et al. | |
| | A16 | US-6070671 | 06/06/2000 | Cumming et al. | |
| | A17 | US-6035953 | 03/14/2000 | Rear | |
| | A18 | US-6024169 | 02/15/2000 | Haugen | |

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| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B1 | DE 3 213 464 | 10/13/1983 | Reimer | | |
| | B2 | DE 4 133 802 | 10/22/1992 | Andrejewski | | |
| | B3 | EP 0 235 105 | 09/02/1987 | Kjell-Oue | | |
| | B4 | EP 0 265 344 | 04/27/1988 | Legendre | | |
| | B5 | EP 0 462 618 | 12/27/1991 | Karlsson | | |

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| | | Number-Kind Code ² (if known) | | | |
| | A19 | US-5887668 | 03/30/1999 | Haugen et al. | |
| | A20 | US-5887655 | 03/30/1999 | Haugen, et al. | |
| | A21 | US-5836409 | 11/17/1998 | Vail, III | |
| | A22 | US-5826651 | 10/27/1998 | Lee, et al. | |
| | A23 | US-5803666 | 09/08/1998 | Keller | |
| | A24 | US-5787978 | 08/04/1998 | Carter, et al. | |
| | A25 | US-5785132 | 07/28/1998 | Richardson, et al. | |
| | A26 | US-5717334 | 02/10/1998 | Vail, III, et al. | |
| | A27 | US-5706905 | 01/13/1998 | Barr | |
| | A28 | US-5615747 | 04/01/1997 | Vail, III | |
| | A29 | US-5575344 | 11/19/1996 | Wireman | |
| | A30 | US-5560440 | 10/01/1996 | Tibbits | |
| | A31 | US-5553679 | 09/10/1996 | Thorp | |
| | A32 | US-5546317 | 10/10/1995 | Hood, III, et al. | |
| | A33 | US-5526880 | 06/18/1996 | Jordan, Jr., et al. | |
| | A34 | US-5520255 | 05/28/1996 | Barr et al. | |
| | A35 | US-5477925 | 12/26/1995 | Trahan, et al. | |
| | A36 | US-5458209 | 10/17/1995 | Hayes, et al. | |
| | A37 | US-5435400 | 07/25/1995 | Smith | |
| | A38 | US-5402856 | 04/04/1995 | Warren, et al. | |

FOREIGN PATENT DOCUMENTS

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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B6 | EP 0 554 568 | 08/11/1993 | Tibbits, et al. | | |
| | B7 | EP 0 961 007 | 12/06/1999 | Gano, et al. | | |
| | B8 | EP 1 006 260 | 06/07/2000 | Fincher, et al. | | |
| | B9 | GB 2 335 217 | 09/15/1999 | Desai | | |

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| | | Number-Kind Code ² (if known) | | | |
| | A39 | US-5361859 | 11/08/1994 | Tibbitts | |
| | A40 | US-5322127 | 06/21/1991 | McNair et al. | |
| | A41 | US-5318122 | 06/07/1994 | Murray, et al. | |
| | A42 | US5181571 | 01/27/1993 | Mueller | |
| | A43 | US-5109924 | 05/05/1992 | Jurgens, et al. | |
| | A44 | US-5052483 | 10/01/1991 | Hudson | |
| | A45 | US-4904119 | 02/27/1990 | Legendre, et al. | |
| | A46 | US-4848469 | 07/18/1989 | Baugh et al. | |
| | A47 | US-4836299 | 06/06/1989 | Bodine | |
| | A48 | US-4825947 | 05/02/1989 | Mikolajczyk | |
| | A49 | US-4699224 | 10/13/1987 | Burton | |
| | A50 | US-4681158 | 07/21/1987 | Pennison | |
| | A51 | US-4620600 | 11/04/1986 | Persson | |
| | A52 | US-4604818 | 08/12/1996 | Inoue | |
| | A53 | US4595058 | 06/17/1986 | Nations | |
| | A54 | US-4515045 | 05/07/1985 | Gnatchenko, et al. | |
| | A55 | US-4489793 | 12/25/1984 | Boren | |
| | A56 | US-4483399 | 11/20/1984 | Colgate | |
| | A57 | US-4466498 | 08/21/1984 | Bardwell | |

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| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B10 | GB 1 469 661 | 04/06/1977 | Swobda, et al. | | |
| | B11 | GB 1 277 461 | 06/03/1972 | | | |
| | B12 | GB 1 448 304 | 09/02/1976 | | | |
| | B13 | GB 1 582 392 | 01/07/1981 | | | |

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|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | A58 | US-4446745 | 05/08/1994 | Stone, et al. | |
| | A59 | US-4396076 | 08/02/1983 | Inoue | |
| | A60 | US-4396077 | 09/12/1981 | Radtke | |
| | A61 | US-4274778 | 06/23/1981 | Putnam, et al. | |
| | A62 | US-4221269 | 09/09/1980 | Hudson | |
| | A63 | US-4189185 | 02/19/1980 | Kammerer, Jr., et al. | |
| | A64 | US-4186628 | 02/05/1990 | Bonnice | |
| | A65 | US-4100981 | 07/18/1978 | Chaffin | |
| | A66 | US-4083405 | 04/11/1978 | Shirley | |
| | A67 | US-3934660 | 01/27/1976 | Nelson | |
| | A68 | US-3901331 | 08/26/1975 | Djurovic | |
| | A69 | US-3785193 | 01/15/1974 | Kinley et al. | |
| | A70 | US-3700048 | 10/24/1972 | Desmoulins | |
| | A71 | US-3691624 | 09/19/1972 | Kinley | |
| | A72 | US-3669190 | 06/13/1972 | Sizer et al. | |
| | A73 | US-3624760 | 11/30/1971 | Bodine | |
| | A74 | US-3575245 | 04/20/1971 | Cordary, et al. | |
| | A75 | US-3489220 | 01/13/1970 | Kinley | |
| | A76 | US3387893 | 06/11/1968 | Hoefer | |

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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B14 | GB 2 053 088 | 02/04/1981 | Gebhart | | |
| | B15 | GB 2 201 912 | 09/14/1988 | Dinsdale | | |
| | B16 | GB 2 313 860 | 02/10/1997 | Lee | | |
| | B17 | GB 2 320 270 | 06/17/1998 | Armell, et al. | | |
| | B18 | GB 2 333 542 | 07/28/1999 | Kirk | | |

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| | A77 | US-3353599 | 11/21/1967 | Swift | |
| | A78 | US-3191680 | 06/29/1965 | Vincent | |
| | A79 | US-3191677 | 06/29/1965 | Kinley | |
| | A80 | US-3169592 | 02/26/1965 | Kammerer | |
| | A81 | US-3102599 | 09/03/1963 | Hillburn | |
| | A82 | US-3087546 | 04/30/1963 | Wooley | |
| | A83 | US-2805043 | 09/03/1957 | Williams | |
| | A84 | US-2765146 | 10/02/1956 | Williams | |
| | A85 | US-2764329 | 09/25/1956 | Hampton | |
| | A86 | US-2743087 | 04/24/1956 | Layne, et al. | |
| | A87 | US-2663073 | 12/22/1953 | Bieber et al. | |
| | A88 | US-2641444 | 06/09/1953 | Moon | |
| | A89 | US-2627891 | 02/10/1953 | Clark | |
| | A90 | US-2499630 | 03/07/1950 | Clark | |
| | A91 | US-2324679 | 07/20/1943 | Cox | |
| | A92 | US2295803 | 09/15/1940 | O'Leary | |
| | A93 | US-2216895 | 10/08/1940 | Stokes | |
| | A94 | US-2060352 | 11/11/1936 | Stokes | |

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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B19 | GB 2 365 463 | 02/20/2002 | Giancarlo | | |
| | B20 | GB 2 382 361 | 05/28/2003 | Hewson, et al. | | |
| | B21 | GB 2 216 926 | 10/18/1989 | Haloid | | |
| | B22 | GB 2 348 223 | 09/27/2000 | Cook, et al. | | |

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| | A95 | US-2049450 | 08/04/1936 | Johnson | |
| | A96 | US-2017451 | 10/15/1935 | Wickersham | |
| | A97 | US-1981525 | 11/20/1934 | Price | |
| | A98 | US-1880218 | 10/04/1932 | Simmons | |
| | A99 | US-1342424 | 06/08/1920 | Cotten | |
| | A100 | US-1301285 | 04/22/1919 | Leonard | |
| | A101 | US1185582 | 05/30/1916 | Bignell | |
| | A102 | US-2004/0069501 | 04/15/2004 | Haugen et al. | |
| | A103 | US-2003/0217865 | 11/27/2003 | Simpson, et al. | |
| | A104 | US-2003/0146023 | 08/07/2003 | Pia | |
| | A105 | US-2003/0141111 | 07/31/2004 | Pia | |
| | A106 | US-2003/0111267 | 06/19/2003 | Pia | |
| | A107 | US-2003/0056991 | 03/27/2003 | Hahn, et al. | |
| | A108 | US-2002/0079102 | 06/27/2002 | Dewey, et al. | |
| | A109 | US-2002/0040787 | 4/11/2002 | Cook, et al. | |
| | A110 | US-2001/0002626 | 6/7/2001 | Frank, et al. | |
| | A111 | | | | |
| | A112 | | | | |
| | A113 | | | | |
| | A114 | | | | |
| | A115 | | | | |
| | A116 | | | | |
| | A117 | | | | |
| | A118 | | | | |
| | A119 | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B23 | GB 540 027 | 10/02/1941 | | | |
| | B24 | GB 7 928 86 | 04/12/1958 | | | |
| | B25 | GB 8 388 33 | 06/22/1960 | | | |
| | B26 | GB 9 977 21 | 07/07/1965 | Garnier, et al. | | |

Examiner

Date Considered



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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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of

10

Application Number

10/678,738

Filing Date

October 2, 2003

First Named Inventor

Vail, III

Group Art Unit

3672

Examiner Name

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Attorney Docket Number

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Submission Date

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FOREIGN PATENT DOCUMENTS

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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B27 | USSR 112631 | 01/10/1956 | Barshai, et al. | | |
| | B28 | USSR 1304470 | 08/31/1984 | Gelfat, et al. | | |
| | B29 | USSR 1808972 | 05/22/1991 | Voroshbitov, et al. | | |
| | B30 | USSR 247162 | 05/10/1967 | Barshai, et al. | | |
| | B31 | USSR 395557 | 12/30/1971 | Barshai, et al. | | |
| | B32 | USSR 415346 | 03/03/1972 | Barshai, et al. | | |
| | B33 | USSR 461218 | 04/23/1973 | Barshai, et al. | | |
| | B34 | USSR 481689 | 06/09/1972 | Barshai, et al. | | |
| | B35 | USSR 501139 | 12/14/1973 | Barshai, et al. | | |
| | B36 | USSR 581238 | 02/23/1976 | Barshai, et al. | | |
| | B37 | USSR 583278 | 08/30/1974 | Barshai, et al. | | |
| | B38 | USSR 585266 | 07/26/1974 | Barshai, et al. | | |
| | B39 | USSR 601390 | 01/12/1976 | Barshai, et al. | | |
| | B40 | USSR 655843 | 03/22/1977 | Barshai, et al. | | |
| | B41 | USSR 659260 | 04/02/1967 | Barshai | | |
| | B42 | USSR 781312 | 03/07/1978 | Barshai, et al. | | |
| | B43 | USSR 899820 | 06/29/1979 | Alikin, et al. | | |
| | B44 | USSR 955765 | 02/09/1981 | Gelfat, et al. | | |
| | B45 | WO 00/37766 | 06/29/2000 | Simpson, et al. | | |
| | B46 | WO 01/83932 | 11/08/2001 | Tulloch | | |
| | B47 | WO 90/06418 | 06/14/1990 | Schulze-Bechinghausen | | |
| | B48 | WO 92/01139 | 01/23/1992 | Nobilequ | | |
| | B49 | WO 92/18743 | 10/29/1992 | Pietras | | |
| | B50 | WO 92/20899 | 11/26/1992 | Ellis | | |
| | B51 | WO 93/24728 | 12/09/1993 | Simpson | | |

Examiner

Date Considered

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**SUPPLEMENTAL
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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B52 | WO 95/10686 | 04/20/1995 | Lorenz, et al. | | |
| | B53 | WO 96/28635 | 09/19/1996 | Strong, et al. | | |
| | B54 | WO 98/09053 | 03/05/1998 | Murray, et al. | | |
| | B55 | WO 99/23354 | 05/14/1999 | Metcalfe | | |
| | B56 | WO 99/37881 | 07/29/1999 | Kirk, et al. | | |
| | B57 | WO 99/50528 | 10/07/1999 | Kuck, et al. | | |
| | B58 | WO 99/64713 | 12/16/1999 | Wardley | | |
| | B59 | WO 99/11902 | 03/11/1999 | Hollingsworth | | |
| | B50 | FR 2053088 | 07/20/1970 | Gottwald | | |
| | B72 | WO 00/08293 | 02/17/2000 | Van Drentham-Susman | | |
| | B73 | | | | | |
| | B74 | | | | | |
| | B75 | | | | | |
| | B76 | | | | | |
| | B77 | | | | | |
| | B78 | | | | | |
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| | | Filing Date | October 2, 2003 |
| | | First Named Inventor | Vail, III |
| | | Group Art Unit | 3672 |
| | | Examiner Name | Unknown |
| | | Attorney Docket Number | WEAT/0524 |
| Sheet 9 | of 10 | Submission Date | July 22, 2004 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
| | C1 | HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development," Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orleans, LA Feb. 23-25, 2000 pp. 1-9. | |
| | C2 | M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Drilling are Options" Drilling Contractor, January/February 2002, pp. 52. | * |
| | C3 | M. GELFGAT, "Retractable Bits Development and Application" Transactions of the ASME, Vol. 120, June (1998), pp. 124-130. | |
| | C4 | "First Success with Casing-Drilling" Word Oil, February (1999), pp. 25. | |
| | C5 | DEAN E. GADDY, Editor, "Russia Shares Technical Know-How with U.S." Oil & Gas Journal, March (1999), pp. 51-52 and 54-56. | |
| | C6 | United States Patent Application 10/794,800, filed March 5, 2004 (WEAT/0360) | |
| | C7 | United States Patent Application 10/832,804, filed April 27, 2004 (WEAT/0383.P1) | |
| | C8 | United States Patent Application 10/795,214, filed March 5, 2004 (WEAT/0373) | |
| | C9 | United States Patent Application 10/794,795, filed March 5, 2004 (WEAT/0357) | |
| | C10 | United States Patent Application 10/775,048, filed February 9, 2004 (WEAT/0359) | |
| | C11 | United States Patent Application 10/772,217, filed February 2, 2004 (WEAT/0344) | |
| | C12 | United States Patent Application 10/788,976, filed February 27, 2004 (WEAT/0372) | |

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|----------|-----------------|
| Examiner | Date Considered |
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| | | | | Examiner Name | Unknown |
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|-----------------------|--------------------------|--|----------------|
| | C13 | United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371) | |
| | C14 | United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343) | |
| | C15 | United States Patent Application 10/795,129, filed March 5, 2004 (WEAT/0366) | |
| | C16 | United States Patent Application 10/794,790, filed March 5, 2004 (WEAT/0329) | |
| | C17 | United States Patent Application 10/162,302, filed June 4, 2004 (WEAT/0410) | |
| | C18 | | |
| | C19 | | |
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| | C22 | | |
| | C23 | | |
| | C24 | | |

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